

EXISTING SIGNALS TO REMAIN

1,2,5
6,7,8 3,4

(R)
(Y)
(G)

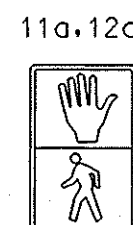
PROPOSED LED SIGNALS

9,10,
11,12



16" LED
COUNTDOWN
PEDESTRIAN
SIGNAL HEAD

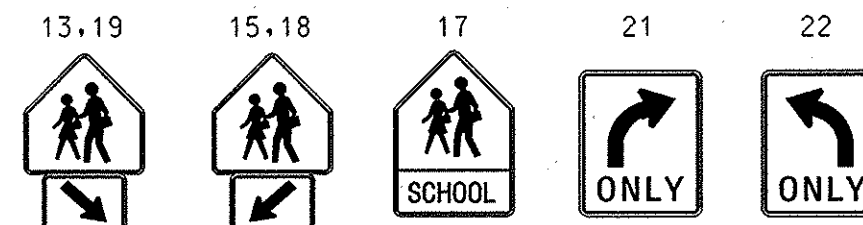
EXISTING SIGNALS TO BE REMOVED



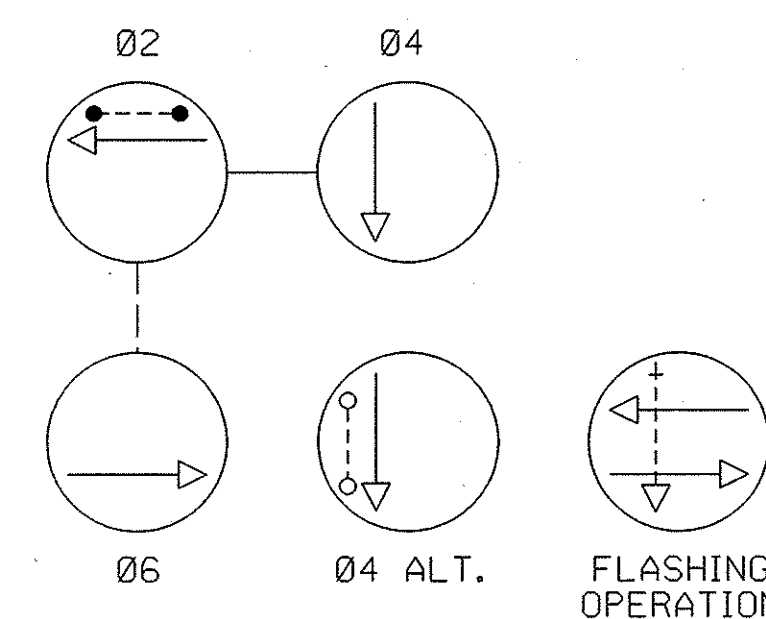
EXISTING SIGNS TO BE REMOVED



EXISTING SIGNS TO REMAIN

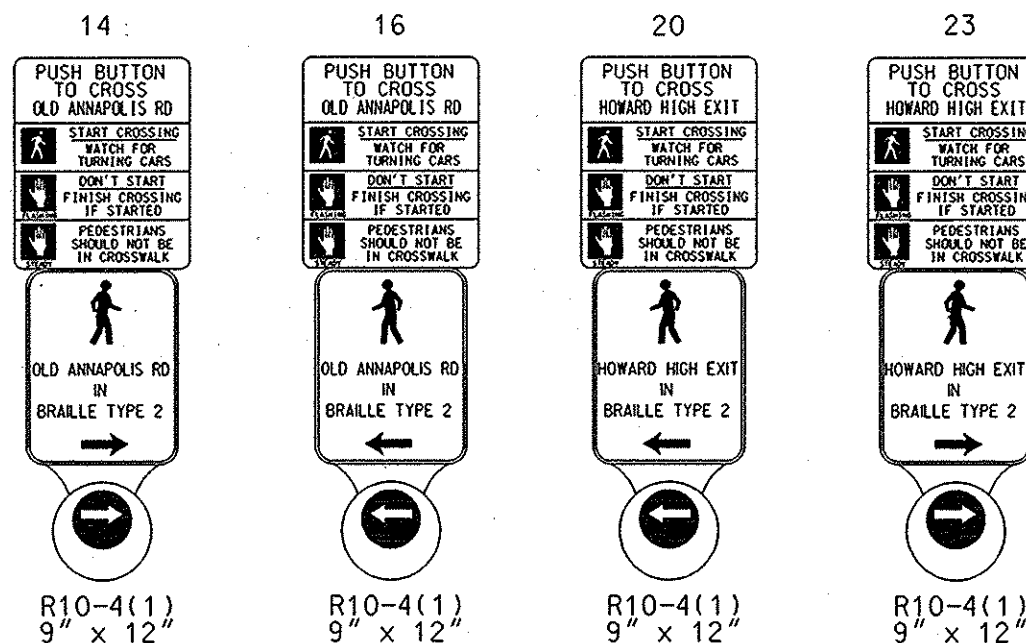


NEMA PHASING

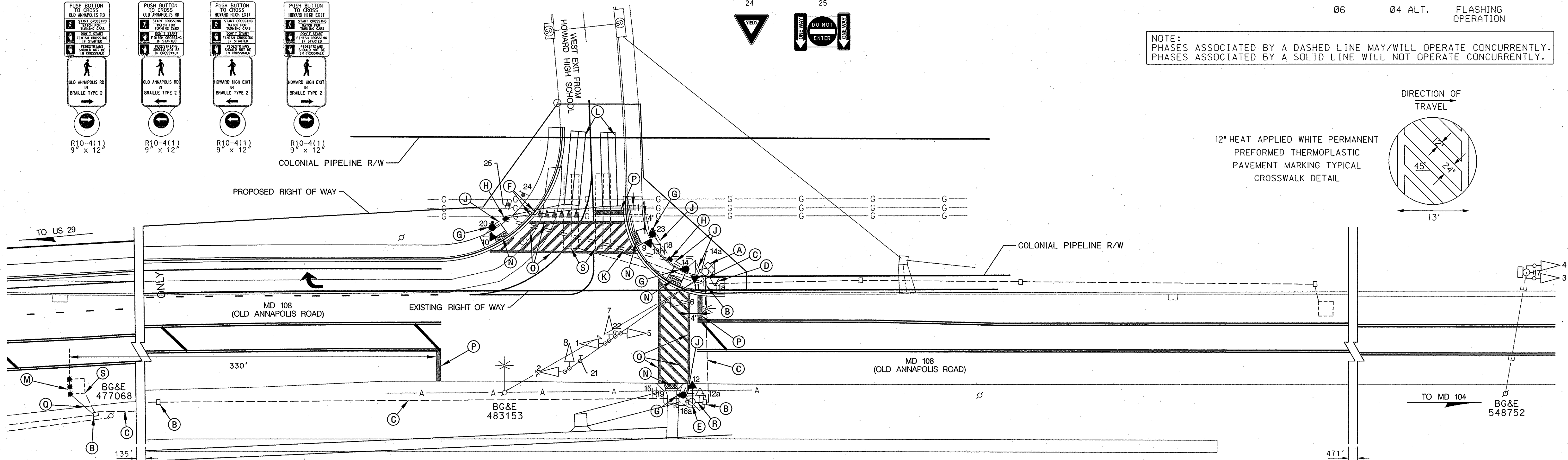


NOTE:
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

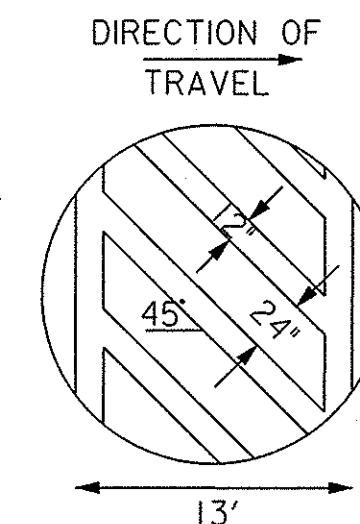
PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN



PROPOSED SIGNS TO BE INSTALLED BY OTHERS



12" HEAT APPLIED WHITE PERMANENT
PREFORMED THERMOPLASTIC
PAVEMENT MARKING TYPICAL
CROSSWALK DETAIL



CONSTRUCTION DETAILS

- INSTALL A 2-WIRE CENTRAL CONTROL UNIT INTO THE EXISTING POLE MOUNTED CABINET
- USE EXISTING HANDHOLE
- USE EXISTING CONDUIT
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND SIGN
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
- INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
- INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, COUNTDOWN LED PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON, AND SIGN R10-4(1) PUSH BUTTON TO CROSS OLD ANNAPOLIS ROAD OR HOWARD HIGH EXIT (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (SEE NOTE 6)
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
- INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE TYPE
- INSTALL MICROLOOP PROBE SET
- INSTALL 24 IN. DETECTABLE WARNING SURFACE (SURFACE APPLIED) (SEE NOTE 5)
- INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK (SEE DETAIL THIS SHEET)
- INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE
- INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- ABANDON EXISTING CONDUIT, CAP AT NEAREST HANDHOLE
- ABANDON EXISTING LOOP DETECTOR

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
- PLACE THE 24 IN. DETECTABLE WARNING SURFACE ALONG THE FULLY DEPRESSED PORTION OF THE PROPOSED/EXISTING RAMP. THE MAT SHALL NOT EXTEND ONTO THE SIDE FLARES.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. IF ANY CONFLICTS SHOULD ARISE WITH THE PETROLEUM GAS LINES, CONTACT THE COLONIAL PIPELINE COMPANY AT 1-800-926-2728.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLAN, OTHER THAN THOSE DETAILED ON THE PLAN. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE TO THE MSHA STANDARDS.
- THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON THE EXISTING RAMPS.
- SEE GENERAL INFORMATION SHEET FOR PROPOSED PEDESTAL POLE LOCATIONS AND ACCESSIBLE PUSHBUTTON LAYOUT.
- ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE

UTILITY LEGEND

SD	SD	STORM DRAIN
G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
A	A	AERIAL CABLES
T	T	TELEPHONE CABLES
F	F	FIBER-OPTIC

GEOMETRIC LEGEND

SHADED - EXISTING
SOLID - PROPOSED

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	
	① REPLACE DETECTION, ADD APS WITH COUNTDOWN PEDESTRIAN HEADS CONTRACT# H03215176 5/2009 A INSTALL NEW SIDEWALK 8/92
	OBD DPD DAK ETJ TH 9/1

TRAFFIC SIGNALIZATION PLAN	
SCALE 1"=20'	DATE 592 CONTRACT NO.
DESIGNED BY DERRICK DICKERSON	COUNTY HOWARD
DRAWN BY DERRICK DICKERSON	LOGMILE 13010811.79
CHECKED BY	T.I.M.S. NO. H157
F.A.P. NO.	TOD NO.
DRAWING NO. TS-3249B	OF SHEET NO. 11 OF 12

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